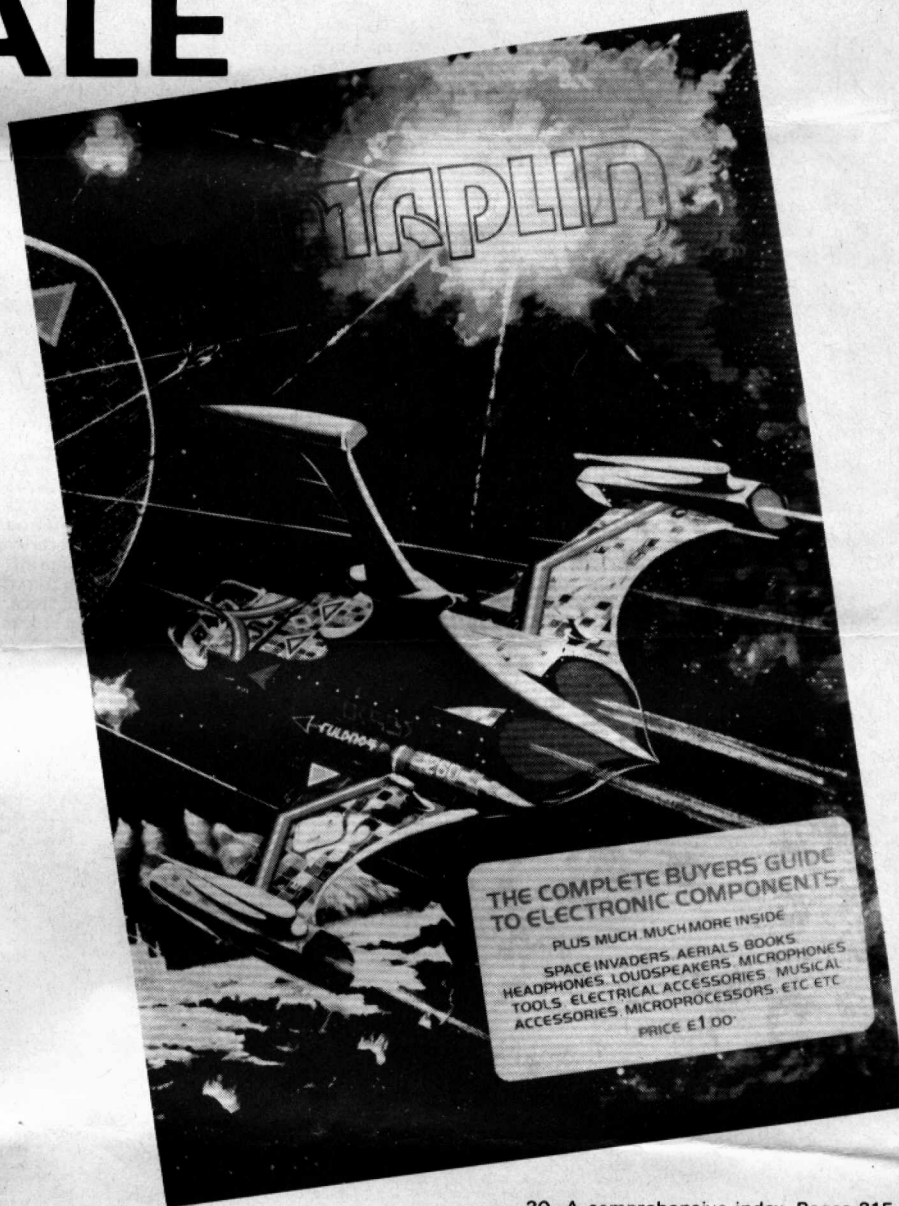


# 1981 CATALOGUE ON SALE NOW!

The new Maplin catalogue is on sale now at W.H. Smith price £1 or by mail order price £1.25 (inland). This time there's even more data and pictures, lots of interesting new circuits, and detailed descriptions of over 800 fascinating new lines, and we've had to make the catalogue larger. In fact 40 pages more than last time. A whole 320 big pages.

We've sold over 165,000 copies of our 79/80 catalogue, over 40,000 more than we estimated, and our new catalogue is even more interesting and informative. Large sections have been completely rewritten and there is an entirely new layout with the book divided into 30 sections to make everything much easier to find. The sections are:

1. Introduction and how to order. Pages 1 to 11.
2. Aerials including FM, TV and CB aerials and accessories. Pages 12 to 20.
3. Batteries. Pages 21 to 22.
4. Books. Pages 23 to 37.
5. Boxes. Pages 38 to 47.
6. Cables and wires. Pages 48 to 55.
7. Capacitors including three new ranges. Pages 56 to 66.
8. Car accessories including sensors to make a miles per gallon meter and two stereo booster amps. Pages 67 to 72.
9. Connectors. Pages 73 to 87.
10. Consumer goods including calculators, computer, headphones, intercoms, PA amps, radios, clock-radios, radio cassette players, video game. Pages 88 to 103.
11. Electrical accessories. Pages 104 to 108.
12. Hardware. Pages 109 to 112.
13. Knobs and drives. Pages 113 to 116.
14. Microphones. Pages 117 to 121.
15. Musical and effects units. Pages 122 to 124.
16. Opto including lighting and some fascinating new opto-electronic products. Pages 125 to 133.
17. Organ components. Pages 134 to 140.
18. Panel meters. Pages 141 to 142.
19. PCB equipment. Pages 143 to 147.
20. Projects and modules. Pages 148 to 174.
21. Protection including fuses and burglar alarm accessories. Pages 175 to 176.
22. Record and tape including turntables, cartridges, styli. Pages 177 to 188.
23. Resistors. Pages 189 to 195.
24. Semiconductors including the very latest fascinating IC's. Pages 196 to 266.



25. Speakers including sirens for bicycles and cars — one with 81 different sounds — and ready-built speakers in cabinets. Pages 267 to 274.
26. Switches including some new low-cost high current, high voltage ultra-miniature relays. Pages 275 to 286.
27. Test gear including lots for CB and some new low-cost digital multi-meters. Pages 287 to 295.
28. Tools. Pages 296 to 307.
29. Wound components including transformers, i.f. coils and formers, motors and a low-cost servo mechanism. Pages 308 to 314.

30. A comprehensive index. Pages 315 to 320.

It's a superb book that will give you many hours of enjoyable reading as well as being a useful reference book. The new Maplin catalogue is the one book no electronics enthusiast can afford to be without. Get a copy now!

#### Overseas prices:

Europe surface mail: £1.68

Europe air mail: £2.75

Outside Europe surface mail: £1.68

Outside Europe air mail (depending on distance) £3.26, £4.23 or £4.88.

We will also accept 12 international reply coupons for despatch by surface mail.

## MAPLIN'S TOP TWENTY BOOKS

1. (3) How To Make Walkie-Talkies by F. G. Rayer (RF18U) (Cat. P30).
2. (2) Z80 IC's Data Sheets (RQ54J) (Cat. P35).
3. (4) IC555 Projects by E. A. Parr (LY04E) (Cat. P27).
4. (1) Basic Electronic Set (XX10L) (Cat. P24).
5. (14) Remote Control Projects by Owen Bishop (XW39N) (Cat. P29).
6. (11) Second Book of Transistor Equivalents and Substitutes by B. B. Babani (RH11M) (Cat. P25).
7. (5) Beginners' Guide To Building Electronic Projects by R. A. Penfold (RF09K) (Cat. P26).
8. (10) BASIC Computer Games by D. H. Ahl (RQ21X) (Cat. P37).
9. (—) Audio Circuits and Projects by Graham Bishop (XW46A) (Cat. P28).
10. (6) First Book of Transistor Equivalents and Substitutes by B. B. Babani (RH00A) (Cat. P25).
11. (7) Electronic Music and Creative Tape Recording by M. K. Berry (RQ36P) (Cat. P33).
12. (8) How To Build Your Own Working 16-Bit Microcomputer by Ken Tracton (XW15R) (Cat. P35).
13. (17) Towers' International Transistor Selector Update 2 by T. D. Towers (RR39N) (Cat. P25).
14. (15) More BASIC Computer Games by D. H. Ahl & S. North (XW48C) (Cat. P37).
15. (—) Test Gear Projects by Terry Dixon (XW47B) (Cat. P29).
16. (16) A Microprocessor Primer by E. A. Parr (XW45Y) (Cat. P34).
17. (19) Electronic Music Projects by R. A. Penfold (XW40T) (Cat. P33).
18. (13) Newnes Radio & Electronics Engineers Pocket Book (RL06G) (Cat. P24).
19. (18) Projects For The Home and Garage by Graham Bishop (XW31J) (Cat. P23).
20. (—) Cost Effective Projects Around The Home by John Watson (XW30H) (Cat. P28).

These are our top twenty best-selling books based on mail-order and shop sales during August, September and October 1980 and do not include our own publications or magazines. We stock over 300 books relating to electronics and the full range is shown on pages 23 to 37 of our 1981 catalogue.

## THIS MONTH'S TWO SPECIAL OFFERS BEGINNERS KIT



A complete kit of all the parts you need to build all the projects described in Tom Duncan's book "Adventures with Micro-Electronics" (see Cat. Page 24). This superb book is the ideal introduction to electronics as a hobby for children and adults. No soldering is required and all projects work from a standard PP3 battery (not supplied in kit) so it is perfectly safe for children of any age.

Whilst learning about electronics you will build a two-tone doorbell, warbling wailing siren, two-octave electronic organ, pulsed flashing lamp, light operated alarm, electronic dice, traffic lights, pulsed bleeper, four-bit binary counter, reaction timer and a complete medium wave/long wave radio. The circuits use the very latest CMOS integrated circuits and components can be used over and over again.

In addition you will need a pair of cutters (e.g. FY21X — Cat. Page 299), a pair of pliers (e.g. FT25C — Cat. Page 300) and a small screwdriver (e.g. YX74R — Cat. Page 297). Apart from the battery, everything else listed on Page 63 of the book "Adventures with Micro-Electronics" is included in the kit.

Usual price £23.00

**SPECIAL OFFER PRICE ONLY £19.90**  
**SAVE OVER £3.00!**

**ORDER AS SP56L**  
**(Beginners Kit)**

**(Adventures with Micro-Electronics is XW63T price £2.35)**

**uA741C 8-pin DIL**

This most useful op-amp is our second special offer this month. Buy a pack of ten and save 40p.

Usual price £2.25 for ten

**SPECIAL OFFER PRICE £1.85**

**ORDER AS SP57M**  
**(Pack of 10 uA741C)**

**OFFER CLOSES FEBRUARY 28th 1981**  
ORDERS PLACED WITH US AT THE SPECIAL OFFER PRICES WILL ONLY BE ACCEPTED IF ACCOMPANIED BY THE SPECIAL OFFER COUPON SUPPLIED FREE TO EVERYONE ON OUR MAILING LIST. THIS PANEL IS NOT THE SPECIAL OFFER COUPON

## Letters to the Editor

### Smaller Resistors Please

Dear Sir,  
Would it be possible for you to stock a range of 1/4 (or even 1/8) watt resistors. I realise that you have said in the past that your larger one-third watt resistors can always be used in place of a smaller rated one, but this is not true. One example is in Radio Control equipment where space is limited. Another point is that magazines usually design their circuit board layouts for 1/4 watt and hole spacings are closer together.

I would also like to suggest two other lines for you to consider stocking:  
1. Piezo Ceramic Buzzers in various sizes.  
2. The 74C series of IC's.

I hope you find these suggestions helpful in keeping up an excellent service.

Yours Faithfully  
S. McALUNDEN

We beg to differ about the size of our one-third watt resistors. Although we quote 8 x 2.8mm as their size in our catalogue, measuring a few from our stocks showed that they were all actually 7 x 2.4mm. Many genuine 1/4 watt resistors are as big as this (in fact the smallest we've ever seen was still 6 x 2.3mm), so if you find hole spacings on pcb's too small for our one-third watt resistors, you'll find them too small for many genuine 1/4 watt resistors as well. However, we do take your point about miniaturisation in radio control gear and our new catalogue does include a range of 1/8 watt resistors.

As to Piezo buzzers, we already stock one very small one and we cannot see the need to have lots of different sized ones. Finally, the 74C series IC's are mainly

equivalents to the standard 4000 series, but with differing pin-outs, and we don't particularly want to stock two IC's with the same function.

### Components Are In Stock

Dear Sir,  
I would like to congratulate Maplin on a fast and efficient service. I was in a situation where I required components urgently and reliably. Not knowing who to turn to, I asked friends and colleagues, and by a majority vote I was recommended to try Maplin, whereupon I turned round and cried: "No! No! Half the components will be out of stock!" One friend, obviously highly amused, replied thus: "Where have you been? They've got a new computer now!" Several threats, arm-twisting sessions, etc., later I decided to send in my order. I was very pleased when seven days later the order arrived, not only complete, but with 5p credit. Thank you very much, Maplin. I'll never take the Mickey out of computers from now on!

Yours Faithfully  
D. L. JONES  
Bangor, Gwynedd

### PC Mount DIN Sockets

Dear Sir,  
May I say that your catalogue is wonderfully presented. However, additions I would like to see to the range are: PC mounting DIN sockets.

Many people feel that DIN sockets are inferior to phono sockets, but they are used on many a high-class amplifier, e.g. Naim Audio. Also they are a lot easier to mount than masses of phono plugs, and negligible interconnecting wire.

Could you please inform customers who to make cheques payable to?

Yours Faithfully  
MICHAEL NESBITT  
Jarrow, Tyne & Wear

We are hoping to include printed circuit mounting DIN sockets and potentiometers in the new catalogue.

### Crystals For Walkie-Talkies

Dear Editor,  
As the book 'How to Make Walkie-Talkies' is selling at number two in your top twenty books chart do you think it would be a good idea to include the crystals and other components required to build these transceivers in your new catalogue.

Keep up the good work and excellent service.

Yours  
M. J. LEWIS  
Swansea

The problem here is that we would have to stock so many different crystals, to cover the ranges properly, but we may be able to stock one or two. Let's hope that CB is made legal on 27MHz and then all our problems will be solved. The way things are going it shouldn't be too long before this happens. For example the government has already de-licensed the radio control band and their recent green paper recommending a ludicrous frequency of around 920MHz, must surely lead to the proliferation of illegal CB equipment on 27MHz and any government who cannot see that, must be stupid. Whether they are, in fact, stupid or not, these actions will eventually force them to legalise CB on 27MHz or admit that they have no control over the activity on 27MHz.

## DISCOUNT VOUCHERS

In order to offer lower prices, we have discontinued our discount voucher scheme. Discount vouchers in your possession may be returned in any quantities in part payment for goods. The vouchers may be used as follows: Each orange voucher: 4p off your order. Each green voucher: 20p off your order. Each blue voucher: £1 off your order. The vouchers do not have any cash value. The vouchers will be valid until December 23rd 1983.

## WRITE FOR MAPLIN

### Projects & Articles Wanted

We are looking for good projects and articles to publish. If you have any good ideas drop us a note with a brief outline and we'll tell you whether we're interested. Alternatively, we can suggest lots of projects that we would like designed and we'll give you a choice of some if you could tell us where your design strengths lie e.g. digital, analogue, car electronics, teaching etc., etc. If you have yet to have any of your designs published then we would be interested to see any work you have done. If you are an established author or once you become one of our authors then we can supply you with all the parts you need for your experiments free of charge, and we'll pay you an excellent page rate for the finished articles. For further details write to us now at P.O. Box 3, Rayleigh, Essex with all relevant details and mark your letter for the attention of the Projects Editor.



# A NEW MONTHLY ELECTRONICS MAGAZINE

In February 1981 there will be a new electronics magazine at your newsagent. Packed with exciting projects, features, news and reviews, the magazine offers a new approach to electronics for the hobbyist. And at regular intervals "Electronics & Music Maker" (E&MM) will carry free our complete price list, so now our guaranteed prices are readily available at your local newsagent.

Every month E&MM will offer you some of the finest bargains around in the form of special offers that will save you more than the cover price. There will be money-saving projects, articles showing you how to get started in electronics and a whole host of features and news covering the whole world of electronics and music.

The very first issue will contain part one of a constructional series that will show you how to build a superb organ at a fraction of the cost of an equivalent ready-built one. The organ has two 49-note manuals, 13-note pedalboard, a rhythm generator with 15 different rhythms, one finger chords and accompaniment, contramelody, seven organ voices and four effects stops on the upper manual with three footages and all the voices are on drawbars which means that the possible combinations of sounds are virtually limitless. The organ has a superb sound, but will cost less than £300 for everything except the cabinet, which will cost about £75 extra if required. Organs with this sort of specification and with this sort of sound cost around £800 to £1,000 in the shops, so if you're looking for a good home entertainment organ, this design could save you hundreds.

Also in the first issues, a visit to the BBC Radiophonic Workshop to show you how it's all done behind the scenes. Plus all this: A programmable polyphonic tone generator  
Exclusive musical instrument review  
Meet Ultravox

One-board mono Synthesizer to build

Looking at microphones

Make a high quality mixer

Sound on stage

Discotek

The home recording studio

Working with Video

Percussion effects box to build

PA systems controller

and more projects, features, news and reviews from the world of electronics and electro-music every month.

E&MM is the magazine of the '80's for the electronics enthusiast. Take a look at just some of the subjects covered in the first year:

## ELECTRONICS

Projects for the home, car, workshop, stage and studio

Introduction to electronics: beginner's series

Guide to electro-music IC's

Components at work

Radio and hi-fi projects

Circuit-Maker: design ideas

Using digital logic: beginner's series

## COMPUTERS

Using micro's in electronics and music  
Micro languages for the electro-musician  
Interfacing ideas

Computer synthesizer projects

Making music with the Sharp MZ-80K

Atari 400/800 music composer

THE No 1 MONTHLY FOR THE ELECTRONICS & MUSIC HOBBYIST

# ELECTRONICS & MUSIC MAKER

PROJECTS, FEATURES, NEWS & REVIEWS  
IN ELECTRONICS & ELECTRO-MUSIC

HOME. WORKSHOP. VEHICLE. EDUCATION. COMPUTER. ELECTRO-MUSIC

## ELECTRO-MUSIC

Projects for organs, synthesizers, guitar, drums, etc.

Beginners' guide to electronic music

Advanced music synthesis

Electronic instrument update

New style instrument reviews: we get inside the circuits!

Book and LP reviews

Education

## NEWS

Electronics — Exhibitions — Electro-Music

— Concerts — CB Column — New

Products — Patents — News Abroad —

## Readers' Letters — Special Offers

The first issue of this fascinating new magazine will be at your local newsagents on February 14th, but only a limited number of copies are being printed, so to be sure of your copy ask your newsagent to save one for you, now. If you have any difficulty, subscriptions are available guaranteeing you your personal copy by post for just £9.90 for the first 12 issues inland or overseas.

Electronics & Music Maker is the No. 1 monthly for the electronics and music enthusiast. Order a copy now! Don't miss it!

# MAILING LIST TO BE PHASED OUT

Now that we are publishing our price list regularly in the new magazine "Electronic & Music Maker" this newsletter will gradually be phased out. We shall no longer be accepting subscriptions to our mailing list for the newsletter and there will only be five more issues. For details of everything that's going on at Maplin after this or when

your mailing list subscription runs out, see our advertisements in "Electronics & Music Maker" magazine.

Our price list will be available when it changes as an insert in "Electronics & Music Maker" free of charge and copies of our price list will be available in addition in our shops or by mail-order free of charge.